

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/11/03

Date Received: 07/17/03

Project: Metro Self Monitor, PO# M91294, F&BI 307149

Date Extracted: 08/06/03

Date Analyzed: 08/06/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M91294 307149-01	0.24	0.19	0.20	<0.05
Method Blank	<0.05	<0.05	<0.1	<0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 308002-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/L (ppm)	2.3	2.3	0	0-20
Nickel	mg/L (ppm)	<0.1	<0.1	nm	0-20
Zinc	mg/L (ppm)	0.79	0.76	4	0-20

Laboratory Code: 308002-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	<0.05	100	80-120
Copper	mg/L (ppm)	2	2.3	87	80-120
Nickel	mg/L (ppm)	4	<0.1	99	80-120
Zinc	mg/L (ppm)	2	0.79	94	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	107	105	80-120	2
Copper	mg/L (ppm)	2	105	105	80-120	0
Nickel	mg/L (ppm)	4	104	105	80-120	1
Zinc	mg/L (ppm)	2	104	106	80-120	2

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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August 11, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 17, 2003 from the Metro Self Monitor, PO# M91294, F&BI 307149 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0811R.DOC

307149

SAMPLE CHAIN OF CUSTODY

CM 07117103 AI1

AKC-0008699

Send Report To G. Thompson
 Company Alaskan Copper Works
 Address 628 S. Harvard St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8379 Fax # 206-382-4309

SAMPLERS <i>(Signature)</i>	
PROJECT NAME/NO. <u>METRO SELF monitor</u>	PO # <u>M91294</u>
REMARKS	

Page # _____ of _____
TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

						ANALYSES REQUESTED										Notes	
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS						
M91294	01	7/7/03	12:30	H2O	1							Ch, Cuy, N, Zn					

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044	SIGNATURE <i>(Signature)</i>	PRINT NAME <u>G. Thompson</u>	COMPANY <u>ACEW</u>	DATE <u>7/17</u>	TIME <u>1:35pm</u>
	Relinquished by:	<u>Tara E. Delvraff</u>	<u>F&BI</u>	<u>07/17/03</u>	<u>1:35</u>
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